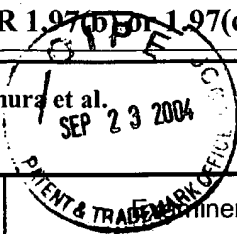


TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT
(Under 37 CFR 1.97(b) or 1.97(c))

Docket No.
15689.61

In Re Application Of: **Yukihiko Okumura et al.**



Application No.

Filing Date

Inventor

Customer No.

Group Art Unit

Confirmation No.

09/701,705

December 1, 2000

Unknown

022913

2661

Unknown

Title: **CHANNEL ESTIMATION DEVICE AND METHOD, DEMODULATION DEVICE AND METHOD, AND
FADING FREQUENCY DECISION DEVICE AND METHOD**

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Address to:

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37 CFR 1.97(b)

1. The Information Disclosure Statement submitted herewith is being filed within three months of the filing of a national application other than a continued prosecution application under 37 CFR 1.53(d); within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; before the mailing of a first Office Action on the merits, or before the mailing of a first Office Action after the filing of a request for continued examination under 37 CFR 1.114.

37 CFR 1.97(c)

2. The Information Disclosure Statement submitted herewith is being filed after the period specified in 37 CFR 1.97(b), provided that the Information Disclosure Statement is filed before the mailing date of a Final Action under 37 CFR 1.113, a Notice of Allowance under 37 CFR 1.311, or an Action that otherwise closes prosecution in the application, and is accompanied by one of:

the statement specified in 37 CFR 1.97(e);

OR

the fee set forth in 37 CFR 1.17(p).

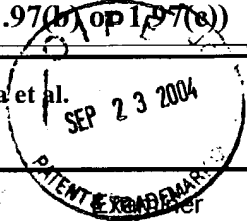


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TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT
(Under 37 CFR 1.970(b) or 1.977(e))

Docket No.
15689.61

In Re Application: Yukihiro Okumura et al.



| | | | | |
|-------------------------------|---------------------------------|-------------------------|------------------------|-----------------------------|
| Application No. 09/701,705 | Filing Date December 1, 2000 | Customer No. Unknown | Group Art Unit 2661 | Confirmation No. Unknown |
|-------------------------------|---------------------------------|-------------------------|------------------------|-----------------------------|

Title: CHANNEL ESTIMATION DEVICE AND METHOD, DEMODULATION DEVICE AND METHOD,
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(Only complete if Applicant elects to pay the fee set forth in 37 CFR 1.17(p))

- A check in the amount of _____ is attached.
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Dated: September 23 2004

Adrian J. Lee
Reg. No.: 42,785
Attorney for Applicant

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09-24-04

2661

EXPRESS MAIL NO. EV 525475142 US

PATENT APPLICATION
Docket No: 15689.61

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

| | | |
|----------------------|--|------------|
| In re application of | |) |
| | Yukihiko OKUMURA et al. |) |
| Serial No.: | 09/701,705 |) Art Unit |
| Filing Date: | December 1, 2000 |) 2661 |
| For: | CHANNEL ESTIMATION DEVICE AND METHOD, DEMODULATION DEVICE AND METHOD, AND FADING FREQUENCY DECISION DEVICE AND METHOD |) |
| Customer No.: | 022913 |) |

INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. § 1.97

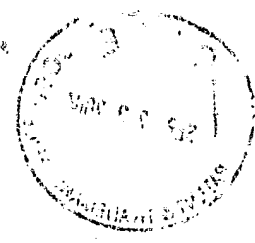
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Sir:

Please find, pursuant to 37 C.F.R. § 1.98(a)(1), the enclosed Form PTO-1449 which contains a list of all patents, publications, or other items that have come to the attention of one or more of the individuals designated in 37 C.F.R. § 1.56(c). While no representation is made that any of these references may be "prior art" within the meaning of that term under 35 U.S.C. §§ 102 or 103, the enclosed list of references is disclosed so as to fully comply with the duty of disclosure set forth in 37 C.F.R. § 1.56.

Moreover, while no representation is made that a specific search of office files or patent office records has been conducted or that no better art exists, the undersigned attorney of record believes that the enclosed art is the closest to the claimed invention (taken in its entirety) of which



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the undersigned is presently aware, and no art which is closer to the claimed invention (taken in its entirety) has been knowingly withheld.

Since all listed references are either in the English language or are accompanied by a translation into English, no concise explanation of relevance is required under 37 C.F.R. § 1.98(a)(3).

DATED September 23, 2004.

Respectfully submitted,



Adrian J. Lee
Attorney for Applicant
Registration No. 42,785
Customer No. 022913

AJL: ds
DS0000002546V001

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CERTIFICATE OF MAILING BY "EXPRESS MAIL" (37 CFR 1.10)

Applicant(s): Yukihiro Okumura et al.

Docket No.

15689.61

Application No.

09/701,705

Filing Date

December 1, 2000

Examiner

Unknown

Customer No.

022913

Group Art Unit

2661

Invention: CHANNEL ESTIMATION DEVICE AND METHOD, DEMODULATION DEVICE AND METHOD, AND FADING FREQUENCY DECISION DEVICE AND METHOD

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Transmittal for Information Disclosure Statement (2 pages; duplicate);
Information Disclosure Statement Under 37 C.F.R. § 1.97 (2 pages);
Form PTO-1449 Listing of References (1 page);
Legible Copy of References; (3 references)
Certificate of Express Mail (EV525475142US);
Acknowledgment Postcard



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|---|--|---|
|  <p>INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)</p> | Docket Number (Optional) 15689.61 | Application Number 09/701,705 |
| | Applicant(s) Yukihiko Okumura et al. | |
| | Filing Date December 1, 2000 | Group Art Unit 2661 |

U.S. PATENT DOCUMENTS

| *EXAMINER INITIAL | REF | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
|-------------------|-----|-----------------|----------|-------------|-------|----------|----------------------------|
| | 1 | 5,737,327 | 4/7/1998 | Ling et al. | 370 | 335 | 3/29/1996 |
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U.S. PATENT APPLICATION PUBLICATIONS

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FOREIGN PATENT DOCUMENTS

| | REF | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | Translation | |
|--|-----|-----------------|----------|---------|--------|----------|-------------|----|
| | | | | | | | YES | NO |
| | 2 | EP 0 715 440 A1 | 6/5/1996 | Europe | H04L27 | 22 | ✓ | |
| | | | | | | | | |
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| | | | | | | | | |
| | | | | | | | | |

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

| | | |
|--|---|---|
| | 3 | CHANNEL ESTIMATION FILTER USING TIME-MULTIPLEXED PILOT CHANNEL FOR COHERENT RAKE COMBINING IN DS-CDMA MOBILE RADIO Hidehiro Andoh, Mamoru Sawahashi, and Fumiyuki Adachi July 1998 |
| | | |

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| EXAMINER | DATE CONSIDERED |
|-----------------|------------------------|

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